

Application No.: 10/800,024
Filed: March 12, 2004

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A composition comprising a protein in crystalline form wherein the protein consists of SEQ ID NO:5 ~~residues 24-292 of SEQ ID NO:1~~, and wherein the protein crystal has a crystal lattice in a $P2_1$ space group and unit cell dimensions, $\pm 5\%$, of $a=56.4 \text{ \AA}$, $b=152.5 \text{ \AA}$, $c=73.8 \text{ \AA}$, $\alpha=90.0^\circ$, $\beta=92.2^\circ$, and $\gamma=90.0^\circ$.

2-3. (Cancelled)

4. (Original) A composition according to claim 1 wherein the protein crystal diffracts X-rays for a determination of structure coordinates to a resolution greater than 3.0 Angstroms.

5-24. (Cancelled)

25. (Currently amended) A method for forming a crystal of a protein comprising:

forming a crystallization volume comprising a precipitant solution and a protein that consists of SEQ ID NO:5 ~~residues 24-292 of SEQ ID NO:1~~, and wherein the protein crystal has a crystal lattice in a $P2_1$ space group and unit cell dimensions, $\pm 5\%$, of $a=56.4 \text{ \AA}$, $b=152.5 \text{ \AA}$, $c=73.8 \text{ \AA}$, $\alpha=90.0^\circ$, $\beta=92.2^\circ$, and $\gamma=90.0^\circ$; and

storing the crystallization volume under conditions suitable for crystal formation of the protein.

26-27. (Cancelled)

28. (Original) A method according to claim 25 wherein the protein diffracts X-rays for a determination of structure coordinates to a resolution greater than 3.0 Angstroms.

29-31. (Cancelled)

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32. (Original) A method according to claim 25, the method further comprising diffracting the protein crystal to produce a diffraction pattern and solving the structure of the protein from the diffraction pattern.

33- 48. (Cancelled)

49. (Currently amended) A soluble protein consisting of SEQ ID NO:5 ~~residues 24-292 of SEQ ID NO:1.~~

50-54. (Canceled)

55. (Currently amended) A non-crystalline protein consisting of SEQ ID NO:5.

56-78. (Cancelled)

79. (New) An isolated soluble protein consisting of SEQ ID NO:5.

80. (New) An isolated non-crystalline protein consisting of SEQ ID NO:5.